

The HistoryData objects are generated by the manager service 38 or other functionality in the SAN manager based on a component's prior status and its current condition as reported by discover engine 40 (which, in turn, is based on information contained in the scans the discover engine receives from the agents). Thus, for example, an object whose prior status was "broken" and which is reported by the discover engine as being "new" is assigned a status of "suspect" in a corresponding history object. More particularly, in one embodiment, the status of components as reflected by HistoryData objects is determined in accord with the following table:

| Current State | Reported Condition | Resulting State   |
|---------------|--------------------|-------------------|
| Normal        | Normal             | Normal            |
| Normal        | New                | Not Valid         |
| Normal        | Missing            | Missing           |
| Normal        | Off-line           | Offline           |
| Normal        | Broken             | Broken            |
| Normal        | Attribute Changed  | Attribute Changed |
| Normal        | Needs Attention    | Needs Attention   |
| Normal        | Moved              | Moved             |
| New           | Normal             | New               |
| New           | New                | New               |
| New           | Missing            | Missing           |
| New           | Off-line           | Offline           |
| New           | Broken             | Broken            |
| New           | Attribute Changed  | Attribute Changed |

| Current State | Reported Condition | Resulting State   |
|---------------|--------------------|-------------------|
| New           | Needs Attention    | Needs Attention   |
| New           | Moved              | Moved             |
| Missing       | Normal             | Suspect           |
| Missing       | New                | New               |
| Missing       | Missing            | Missing           |
| Missing       | Off-line           | Offline           |
| Missing       | Broken             | Broken            |
| Missing       | Attribute Changed  | Attribute Changed |
| Missing       | Needs Attention    | Needs Attention   |
| Missing       | Moved              | Moved             |
| Off-line      | Normal             | Suspect           |
| Off-line      | New                | Not Valid         |
| Off-line      | Missing            | Missing           |
| Off-line      | Off-line           | Offline           |
| Off-line      | Broken             | Broken            |
| Off-line      | Attribute Changed  | Attribute Changed |
| Off-line      | Needs Attention    | Needs Attention   |
| Off-line      | Moved              | Moved             |
| Broken        | Normal             | Suspect           |
| Broken        | New                | Suspect           |
| Broken        | Missing            | Missing           |
| Broken        | Offline            | Offline           |

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| <b>Current State</b> | <b>Reported Condition</b> | <b>Resulting State</b> |
|----------------------|---------------------------|------------------------|
| Broken               | Broken                    | Broken                 |
| Broken               | Attribute Changed         | Attribute Changed      |
| Broken               | Needs Attention           | Needs Attention        |
| Broken               | Moved                     | Moved                  |
| Attribute Changed    | Normal                    | Attribute Changed      |
| Attribute Changed    | New                       | Not Valid              |
| Attribute Changed    | Missing                   | Missing                |
| Attribute Changed    | Off-line                  | Offline                |
| Attribute Changed    | Broken                    | Broken                 |
| Attribute Changed    | Attribute Changed         | Attribute Changed      |
| Attribute Changed    | Needs Attention           | Needs Attention        |
| Attribute Changed    | Moved                     | Moved                  |
| Needs Attention      | Normal                    | Suspect                |
| Needs Attention      | New                       | Not Valid              |
| Needs Attention      | Missing                   | Missing                |
| Needs Attention      | Offline                   | Offline                |
| Needs Attention      | Broken                    | Broken                 |
| Needs Attention      | Attribute Changed         | Needs Attention        |
| Needs Attention      | Needs Attention           | Needs Attention        |
| Needs Attention      | Moved                     | Moved                  |
| Suspect              | Normal                    | Suspect                |
| Suspect              | New                       | Not Valid              |